

12975 W. 24th Pl. Golden, (Applewood) Colorado, 80401 (303) 237-8865 Fax 237-8869

November 4, 2015

Ms. Wendy Cheung U. S. Environmental Protection Agency Mail Code: 8P-W-GW 1595 Wynkoop Street Denver, CO 80202-1129

RE: Class I Injection Well DI-2 Application to Construct Well EPA UIC Area Permit CO12143-00000

Dear Ms. Cheung:

As we discussed, the East Cherry Creek Valley Water and Sanitation District would like to construct Well DI-2, which will be a Class I Non-Hazardous injection well under EPA UIC Area Permit CO12143-00000. Well DI-1 has already been constructed and is functioning well.

Attached please find the signed "Underground Injection Control Permit Application", Proposed DI-2 Well Design, and required Financial Responsibility information.

As required, we have researched records from the Colorado Division of Water Resources and the Colorado Oil and Gas Conservation Commission in order to locate any new water or oil/gas wells in the Area of Review that have been constructed since the original well search was conducted in 2009. The Area of Review includes the hatched area on the attached map (ECCV Site) plus the area within one quarter mile of said site boundaries. No new water or oil/gas wells have been constructed in the Area of Review since 1-23-09.

We look forward to your approval to proceed with construction of this well.

If you have questions, please call.

Sincerely,

Patrick OBrien, PE, CPGS

OMB No. 2040-0042

Approval Expires 11/30/2014

United States Environmental Protection A

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(Colle				Permit Application lected under the authority of the Safe Drinking Vater Act. Sections 1421, 1422, 40 CFR 144)				\vdash	-							i	
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Read Attached Instructions Before Starting																	
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Street Address							Street Address	ast Cherry Creek Valley Water and Sanitation District								07	
6201 S. Gun Clu	b Road			AL DESIGNATION OF THE PARTY OF			-	01 S. Gun Club Road					Phone Number (303) 693-380				
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Aurora				CO 80016			Aurora	Aurora				CO 800			16		
IV. Commercia	I Facility		V.	V. Ownership VI. Legal Contact							VII. S	IC Codes	3596				
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□ No				Married .			Operator										
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	9/03					XIV.	Certif	ication									
I certify under the pe and that, based on n	ny inqui	ry of those	individu	uals imme	diately ı	responsib	le for	obtaining the	info	rmatic	n, I believ	o that the	info	rmation is t	rue,	ents	
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A. Name and Title (Type or Print)											B. Phone No. (Area Code and No.)						
David Kaunisto, District Manager C. Signature										S. S. Santonian and A.	(303) 693-3800						
and Illeunto										D. Date 11/04							
EPA Form 7520-6 (Re	v. 12-11)	//															

Cmt Stage Tool Niobrara J Sand Dakota Geologic Tops ormation Name 9 5/8" Main Ho TOC @ Surface 10 3/4" Casing Fox Hills (USDW TOC to Surface Missourian Fountain puncil Gro Wolfcamp Admire Amazon Virgil County: API #: State: Well: Adams Colorado DI-2 TBD 9,930 10,000 10,220 10,240 9270 9525 970 1730 9800 9700 9660 9100 7100 7130 7990 8150 1750 主見 9150-9250 9300-9400 9550-9650 9660-9700 10000-10050 Proposed Perforate 9700-9750 Casing Strings: 10 3/4"×7 5/8" × 5 1/2" Section: Township: (see wellhead equip specs) Wellbore Schematic 1S 66W Hole Main Hole 9 7/8" Surface Hole 14 3/4" Depth 1,750' - 10,300' 0'-1750' Bit 9 7/8" PDC TriCone 14 3/4" Well Type: Rig#: AFE #: Contractor: Surface Casing: 10-3/4" 44# J-55 STC: Casing 7-5/8" 26.4# P110 LTC new casing; 100 centralizers, 1 float shoe, 1 float collar, 2 cement stage tool (7100' & 2400') 20 centralizers, 1 guide shoe. 1 float collar, 2 cement baskets Vert Disp CBT TBD TBD Lightly dispersed system KCI Inhibit systems 200' > Lyons to TD: , pretreat for Polymer/Gel LSND KCl Inhib 300' > Niobrara to 200' > Clear Water/Polymer/KCI 1750' to 300' above Spud Mud +/- 9.0 ppg anhydrites, 9.0 - 9.4 ppg; 36 - 40 FV Lyons; 9.0 - 9.4 ppg; 36 - 40 FV (drilling); 8 - 10 CC FL Niobrara; 8.3 - 9.2 ppg; 26 - 35 FV drill, 65 FV log; 8 - 10 CC FL closed GL: RKB: TO MD/TVD ft: Cement 10,300' - 7100' DV (plus 70% excess over caliper): DV - Surface plus 20% caliper, approx 1000sx 13.5ppg Class G 0-1750': Caliper plus excess; 13.5#/gal Class Approx 275sx 13.5 ppg Class G + additives + additives Cement to Surface G + 2% CaCl2 Cement to Surface dool 31-Oct-15 Rev: Survey every 250' and Drop at TD. Max Dirxnl Drxnl Survey every 500°, max 6 degrees, 1.5 degree/100° change max deviation 3 degrees, 1.5 degree/100' change max 5030' (est) 5045' (est) 10,300'/10,300' (est) Wireline Logging Open Hole: Resistivity/Micro Log/Compensated Neutron/Density/PEF/GR/SP/Caliper: Open Hole: Resistivity/ GR/SP/Caliper: Cased Hole: CBL/VDL/GR/CCL Cased Hole: CBL/VDL/GR/CCL

None

60' samples 0'- Surface Hote TD

Proposed ECCV DI-2 Injection

Well Schematic

30' samples Niobrara - TD, 10' samples as directed

